



2) $\begin{cases} 3x + 2y = 11 \\ x + 4y = 2 \end{cases}$

$3x + 2(-\frac{1}{2}) = 11$

$3(-\frac{1}{2} + 2) + 2y = 11$

$-12y + 6 + 2y = 11$

$-10y + 6 = 11$

$-10y = 5$

$y = -\frac{1}{2}$

$x + 4(-\frac{1}{2}) = 2$

$x - 2 = 2$

$x = 4$

$(4, -\frac{1}{2})$

3) $\begin{cases} x - 3y = 4 \\ 2x - 5y = 4 \end{cases}$

$2(x - 3y) - 5y = 4$

$2x - 6y - 5y = 4$

$2x - 11y = 4$

$2x - 5y = 4$

$-6y = 0$

$y = 0$

$x - 3(0) = 4$

$x = 4$

$(4, 0)$

4) $\begin{cases} 2x - y = 1 \\ 3y + 3 = 6x \end{cases}$

$3(2x - y) + 3 = 6x$

$6x - 3y + 3 = 6x$

$-3y + 3 = 0$

$-3y = -3$

$y = 1$

$2x - 1 = 1$

$2x = 2$

$x = 1$

$(1, 1)$

5) $\begin{cases} m - 3n = 23 \\ m + 4n = 1 \end{cases}$

$4(m - 3n) - 3n = 23$

$4m - 12n - 3n = 23$

$4m - 15n = 23$

$4m + 4n = 1$

$-19n = 22$

$n = -\frac{22}{19}$

$m - 3(-\frac{22}{19}) = 23$

$m + \frac{66}{19} = 23$

$m = 23 - \frac{66}{19}$

$m = \frac{437 - 66}{19}$

$m = \frac{371}{19}$

$(\frac{371}{19}, -\frac{22}{19})$

No HW